



Product designation Product type designation			Power contactor BGF09
Contact characteristics			20100
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	20
Operational current le			
	AC-1 (≤40°C)	А	160
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
IFC may current le in DC1 with $L/R < 1$ ms with 4 poles in series	220V	Α	2

#### IEC max current le in DC1 with L/R $\leq$ 1ms with 4 poles in series



	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	220 V	A	
IEC max current le in DC3-DC3 with ETC 3 13ms with 3 poles in series	≤24V	А	10
	<u>≤</u> 24∨ 48V	A	10
	40V 75V		
	110V	A	6 5
		A	
IEC may surrent to in DC2 DC5 with $L/D < 45$ may with 4 solar in particular	220V	A	0.8
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	-0.0.1		4.0
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse		_	
	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	A	72
	500V	A A	72
			72 72
Breaking capacity at voltage	500V	А	72
	500V	A A	72 72
Breaking capacity at voltage Resistance per pole (average value)	500V	A A	72 72
Breaking capacity at voltage Resistance per pole (average value)	500V 690V	A A mΩ	72 72 10
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith	A A mΩ W	72 72 10 4
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith	A A mΩ W	72 72 10 4
Breaking capacity at voltage Resistance per pole (average value)	500V 690V Ith AC3	A A mΩ W W	72 72 10 4 0.81
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min	A MΩ W W W	72 72 10 4 0.81 0.8
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min max	A MΩ W W W	72 72 10 4 0.81 0.8 1 0.6
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min	A MΩ W W Nm Nm	72 72 10 4 0.81 0.8 1
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min max min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max	A MΩ W W W Nm Ibin Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8 1
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8

11BGF0910A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Conductor section

Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	on		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	180
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC				
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
- p		110V	А	2.9
Operating current DC	13			
opolaling callent 2 c		24V	А	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Operations		0001	~	0.0
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	0d according to EN/ISO 13489-1			
	00 0000000 10 EN/100 10-00-1	rated load	oveloe	500000
		mechanical load	cycles cycles	2000000
Mirror contate accord	ing to IEC/EN 600474 4 1		cycles	
	ing to IEC/EN 609474-4-1			yes
EMC compatibility			N/	yes
Rated AC voltage at 6			V	24
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	75
		min	%Us	75
		max	%Us	115
	drop-out		0/11	0.0
		min	%Us	20



# **11BGF0910A02460** Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NO, 24VAC/60Hz wersja faston

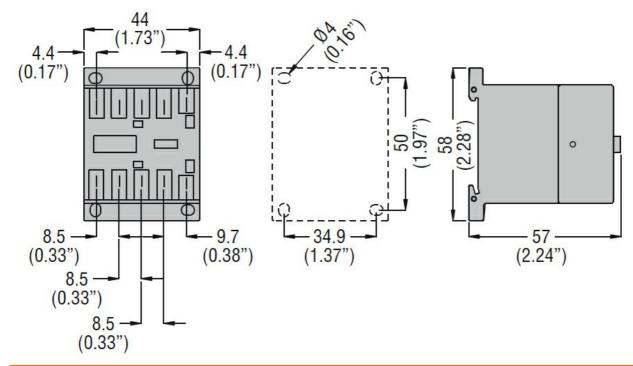
			max	%Us	55
AC average coil consu	umption at 20°C				
-	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	oowered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c					
	in AC				
		Closing NO			
			min	ms	12
		0	max	ms	21
		Opening NO	-		•
			min	ms	9
			max	ms	18
		Closing NC			. –
			min	ms	17
			max	ms	26
		Opening NC			7
			min	ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
			min	ms	18
			max	ms	25
		Opening NO	Пах	mo	20
			min	ms	2
			max	ms	3
		Closing NC	Шах		-
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA	) for three-phase A	C motor			
·	-		at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe	erformance				
	for single-phase	AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor			
	·		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5

11BGF0910A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



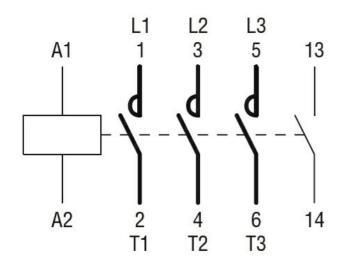
ENERGY AND AUTOMATION 575/600V HP 5 General USE

AC current	А	20
Short circuit current	kA	100
Fuse rating	А	30
Fuse class		J
Short circuit current	kA	5
Fuse rating	Α	30
		A600 - Q600
min	°C	-50
max	°C	+70
min	°C	-60
max	°C	+80
	m	3000
		3
	Short circuit current Fuse rating Fuse class Short circuit current Fuse rating min max	Short circuit current kA Fuse rating A Fuse class Short circuit current kA Fuse rating A min °C max °C



## Wiring diagrams





## Certifications and compliance

#### Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching